

Claims

- [c1] 1. An integrated driver device frame of a liquid crystal display panel, comprising:
a plurality of driver units, wherein each driver unit has a corresponding driver unit width and drives a corresponding driving line, respectively; and
a plurality of pixels, wherein each pixel is coupled to one of the driving lines;
wherein a relationship between the driver unit width and the interval of two neighboring pixels is that, the driver unit width is larger than the interval of two neighboring pixels and less than two times of the interval of two neighboring pixels.
- [c2] 2. The integrated driver device frame of a liquid crystal display panel of claim 1, wherein the driver unit is composed by a Thin Film Transistor ("TFT").
- [c3] 3. The integrated driver device frame of a liquid crystal display panel of claim 1, further comprises:
a power source for providing a first power line having a first polarity, a second power line and a third power line having a second polarity;
wherein the plurality of driver units are coupled to the

first power line, and a first part of the plurality of driver units is further coupled to the second power line and a second part of the plurality of driver units is further coupled to the third power line.

- [c4] 4. The integrated driver device frame of a liquid crystal display panel of claim 3, wherein the first polarity is a logical high voltage and the second polarity is a logical low voltage.
- [c5] 5. The integrated driver device frame of a liquid crystal display panel of claim 3, wherein the first polarity is a logical low voltage and the second polarity is a logical high voltage.
- [c6] 6. The integrated driver device frame of a liquid crystal display panel of claim 3, wherein the first part and the second part of the plurality of driver units are staggered.
- [c7] 7. The integrated driver device frame of a liquid crystal display panel of claim 1, further comprises:
a power source for providing a first power line having a first polarity and a second power line having a second polarity, wherein the first power line has a first main line and a plurality of first branches and the second power line has a second main line and a plurality of second branches;

wherein a first part of the plurality of driver units is further coupled to the first main line and the corresponding second branches, and a second part of the plurality of driver units is further coupled to the second main line and the corresponding first branches.

[c8] 8. The integrated driver device frame of a liquid crystal display panel of claim 7, wherein the first polarity is a logical high voltage and the second polarity is a logical low voltage.

[c9] 9. The integrated driver device frame of a liquid crystal display panel of claim 7, wherein the first polarity is a logical low voltage and the second polarity is a logical high voltage.

[c10] 10. The integrated driver device frame of a liquid crystal display panel of claim 7, wherein the first part and the second part of the plurality of driver units are staggered.

[c11] 11. An integrated driver device frame of a liquid crystal display panel, comprising:
a plurality of driver units, wherein each driver unit has a corresponding driver unit width and drives a corresponding driving line, respectively; and
a plurality of pixels, wherein each pixel is coupled to one of the driving lines;

wherein the plurality of driver units are arranged with two staggered rows, and one of the driver units in a row is neighboring to at least one of the driver units in another row.

- [c12] 12. The integrated driver device frame of a liquid crystal display panel of claim 11, further comprises:
a power source for providing a first power line having a first polarity, a second power line and a third power line having a second polarity;
wherein the plurality of driver units are coupled to the first power line, and a first part of the plurality of driver units is further coupled to the second power line and a second part of the plurality of driver units is further coupled to the third power line.
- [c13] 13. The integrated driver device frame of a liquid crystal display panel of claim 12, wherein the first polarity is a logical high voltage and the second polarity is a logical low voltage.
- [c14] 14. The integrated driver device frame of a liquid crystal display panel of claim 12, wherein the first polarity is a logical low voltage and the second polarity is a logical high voltage.
- [c15] 15. The integrated driver device frame of a liquid crystal

display panel of claim 11, further comprises:

a power source for providing a first power line having a first polarity and a second power line having a second polarity, wherein the first power line has a first main line and a plurality of first branches and the second power line has a second main line and a plurality of second branches;

wherein a first part of the plurality of driver units is further coupled to the first main line and the corresponding second branches, and a second part of the plurality of driver units is further coupled to the second main line and the corresponding first branches.

[c16] 16. The integrated driver device frame of a liquid crystal display panel of claim 15, wherein the first polarity is a logical high voltage and the second polarity is a logical low voltage.

[c17] 17. The integrated driver device frame of a liquid crystal display panel of claim 15, wherein the first polarity is a logical low voltage and the second polarity is a logical high voltage.

[c18] 18. The integrated driver device frame of a liquid crystal display panel of claim 11, wherein the driver unit is composed by a Thin Film Transistor ("TFT").